

	TYPICAL DATA SHEET*	ISSUE DATE	June-2020
	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	HR2320	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HR2320 is one of the styrenic ter polymers (ABS) grades with improved toughness and heat resistance versus HIPS grades. HR2320 exhibits low shrinkage and good dimensional stability. HR2320 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your applications.

Applications: furniture, automotive parts, general injection molding, appliances casing and home appliances with heat resistance characteristics.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1.2
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	20
VICAT SOFTENING POINT(50 N LOAD)	°C	ASTM D-1525	103
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	470
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	107

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	HR2340	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HR2340 is one of the styrenic ter polymers (ABS) grades with improved toughness and heat resistance versus HIPS grades. HR2340 exhibits low shrinkage and good dimensional stability. HR2340 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your application.

Applications: furniture, automotive parts, general injection molding, appliances casing and home appliances with heat resistance characteristics.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	40
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	112
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	480
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	110

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	HR0370	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

Although general purpose ABS have good enough mechanical properties for the practical use in terms of process ability, impact strength, etc, its use is sometimes limited at high temperature due to the deformation of its molded products by heat. So High Heat Resistant ABS (HR0370) offers an attractive alternative to general purpose ABS and other engineering plastics making it suitable for the applications designed for the use at high temperature.

Applications: Automotive interior, Cockpit module parts, Power window, Switch panel, Pull handle, Console

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1.2
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	17
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	102
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	450
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	106

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	SD0140	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SD0140 is one of the styrenic ter polymers (ABS) grades with improved toughness versus HIPS grades. SD0140 exhibits high gloss, low shrinkage, and good dimensional stability. SD0140 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your application.

Applications: furniture, automotive parts, general injection molding, appliances casing, office supplies.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	3.2
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	23
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	97
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	450
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	110

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	TYPICAL DATA SHEET*	ISSUE DATE	June-2020
	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	SD0150	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SD0150 is one of the styrenic ter polymers (ABS) grades with improved toughness versus HIPS grade. SD0150 exhibits low shrinkage and good dimensional stability. SD0150 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your application.

Applications: Furniture, Automotive Parts, General Injection Molding, Appliances Casing, Office Supplies.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1.8
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	22
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	98
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	450
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	105

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	TYPICAL DATA SHEET*	ISSUE DATE	June-2020
	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	SD0152	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SD0152 is one of the styrenic ter polymers (ABS) grades with improved toughness versus HIPS grades. SD0152 exhibits low shrinkage and good dimensional stability. SD0152 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your application.

Applications: furniture, automotive parts, general injection molding, appliances casing, office supplies.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	2.4
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	23
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	99
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	450
TENSILE MODULUS	KGF/CM2	ASTM D-638	21000
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	108

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	TYPICAL DATA SHEET*	ISSUE DATE	June-2020
	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	SV0157	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SV0157 is one of the styrenic ter polymers(ABS) grades with improved toughness versus HIPS grades. SV0157 exhibits low shrinkage, and good dimensional stability.SV0157 has high melt strengths is widely used for the production of extruded sheet and some of considerable size and thickness shaped.

Applications: include panels for large appliances and thermoformed items such as hot tubs, recreational vehicle parts and refrigerator liner. Use this information as a guide to aid you in selecting the proper resin for your application.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	0.5
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	31
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	101
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	430
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	104

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	SH0150	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SH-0150 is a high flow acrylonitrile butadiene styrene (ABS) grade with good toughness, high impact strength excellent mechanical and low-temperature properties. This grade Exhibits good process ability, vacuum formability, chemical resistance and dimensional stability. This grade is suitable for processing by extrusion and use in vacuum formed, general thin sheets and refrigerator liner sheets.

Applications: Parts with significant impact resistance, general sheets.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1.1
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	22
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	100
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	420
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	107

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	VH0800D	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

In addition to the typical features of general purpose ABS grades, VH0800D is specially formulated with flame retardant chemicals to have the self-extinguish ability making it much safer for the use in the electrical & electronics applications with the most widely accepted fire safety standards. VH0800D has excellent balance of mechanical properties and process ability.

Applications: TV Monitor, Wiring devices

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	5.8
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	15.5
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	85
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	400
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	99

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	ACRILONITRILE BUTADIENE STYRENE "ABS"	WWW.TPCO.IR	
	HM0560	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HM0560 is one of the high modulus resins that have diversity in both manufacturing methods and material characteristics. This grade has high impact and flexural strength, excellent mechanical properties, chemical resistance, mold ability, dimensional stability and paint ability.

Applications: watches, toys, cassette recorders and etc.

Drying: Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	2.5
IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	13
VICAT SOFTENING POINT(50N LOAD)	°C	ASTM D-1525	107
BULK DENSITY	KG/M3	-	600
TENSILE STRENGTH AT YEILD	KGF/CM2	ASTM D-638	520
ROCKWELL HARDNESS(AT 23°C)	R.SCALE	ASTM D-785	112

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