

Terluran[®] GP-35

Acrylonitrile/Butadiene/Styrene

ABS

Terluran[®] GP-35 acrylonitrile/butadiene/styrene copolymer (ABS) is a very high flow injection molding grade with good resistance to impact and heat deflection. It is intended for a wide range of applications, particularly in thin-walled components for telecommunications, consumer products, business equipment and automotive.

Property Description	Method	Units	Terluran [®] GP-35 ABS
Density	ASTM D1505	g/cm ³	1.04
Melt Volume Rate (Melt Flow Index) 200°C/5kg (cond. G) 220°C/10kg 230°C/3.8kg (cond. I)	ASTM D1238	ml/10 min. (g/10 min.)	3.1 (3.0) 35.0 (34.3) 10.0 (9.8)
Tensile Strength at Yield, Type 1, 0.125"	ASTM D638	psi (MPa)	6,500 (45)
Elongation at Yield	ASTM D638	%	2.4
Tensile Strength at Break, Type 1, 0.125"	ASTM D638	psi (MPa)	4,800 (33)
Tensile Modulus, 0.125"	ASTM D638	psi (MPa)	360,000 (2,500)
Flexural Strength, 0.125"	ASTM D790	psi (MPa)	9,400 (65)
Flexural Modulus	ASTM D790	psi (MPa)	340,000 (2,350)
Rockwell Hardness	ASTM D785	R	102
Notched Izod Impact Strength, 0.125" 73°F (23°C) 0°F (-18°C) -22°F (-30°C)	ASTM D256	ft.lbs./in. (J/m)	4.5 (240) 1.6 (85) 1.5 (80)
Heat Deflection Temperature at 264 psi, 0.250" annealed 8hrs. at 85°C unannealed	ASTM D648	°F (°C)	206 (97) 167 (75)
Heat Deflection Temperature at 66 psi, 0.250" annealed 8hrs. at 85°C unannealed	ASTM D648	°F (°C)	214 (101) 192 (89)
Vicat Softening Temperature, Rate A, Loading 2	ASTM D1525	°F (°C)	203 (95)
Flammability Rating ¹ , 0.059" (1.5 mm) thick sample	UL 94	—	HB

¹ Flammability ratings are not intended to reflect hazards presented by these materials under actual fire conditions.

Values shown are based on limited testing of unmodified, uncolored material (unless otherwise noted) and are not intended to be used in establishing maximum or minimum ranges for specification purposes.

Terluran® GP-35 ABS

Processing

Drying

Terluran® GP-35 ABS will attract moisture from the atmosphere, with the rate depending on temperature and humidity. It is recommended that the material be dried in a dehumidifying dryer at 170°F to 175°F (75°C - 80°C) for 2 - 4 hours.

Recycling

A maximum of 20% reprocessed material can be added to the virgin product provided that it has not been contaminated or previously degraded. The reprocessed material must be dried to prevent any addition of moisture to the virgin material before processing.

Not all applications permit the use of regrind. Those applications which do allow the use of regrind should be tested for the appropriate mechanical properties per the specific molded part and application.

Processing Temperatures

Injection Molding:

Melt temperatures for Terluran® GP-35 ABS lie between 430°F and 500°F (221°C - 260°C) with mold temperatures between 85°F and 140°F (30°C - 60°C).

Processing Precautions

Avoid excessive melt temperatures and long residence times as this could lead to thermal degradation.

For Technical Assistance please call:

1-800-527-TECH (1-800-527-8324) or
1-734-324-5150 if calling from outside the U.S.

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BASF Performance Plastics

Products

BASF Plastic Materials offers a broad range of performance plastics from which users can select an optimum material to meet their requirements. These materials include several types of Ultramid® polyamides (PA6, 66, 6/66, 6/6T), Ultraform® acetal copolymer (POM), Ultradur® polybutylene terephthalates, Luran® styrene/ acrylonitrile, Luran® S acrylonitrile/styrene/acrylate (ASA) and ASA/polycarbonate blends (ASA/PC), Terluran® acrylonitrile/ butadiene/styrene (ABS), Terlurux® methylmethacrylate/ acrylonitrile/ butadiene/styrene (MABS), Ultrason® E polyethersulfone (PES), and Ultrason® S polysulfone (PSU).

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BASF Corporation
Plastic Materials
3000 Continental Drive - North
Mount Olive, New Jersey 07828-1234
Tel: 800-BC-RESIN
Fax: 973-426-3912

BASF Corporation
Plastics Applications Center
1609 Biddle Avenue
Wyandotte, Michigan 48192
Tel: 734-324-5105
Fax: 734-324-6858

BASF Canada
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Canada
Tel: 416-675-3611
Fax: 416-674-2588

BASF Mexicana S.A. de C.V.
Insurgentes Sur 975
Col. Ciudad de los Deportes
Delegación Benito Juárez
03710 México, D.F.
México
Tel: 011-52-5-325-2624
Fax: 011-52-5-611-6751

World Wide Web: <http://www.basf.com/plastics>

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