Lustran® ABS 556

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Lustran ABS 556 resin is a low-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It has good melt strength for extrusion and thermoforming, and can be easily coextruded. It is easy to color with ABS color concentrates. The recommended ABS substrate is Lustran ABS 752 resin. Lustran ABS 556 resin is used for low-gloss applications, such as motor vehicle dashboards, interior panels, and trim. This includes recreational vehicles, cars, trucks, heavy trucks, construction vehicles, forklift trucks, and farm equipment. As with any product, use of Lustran ABS 556 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information	
UL YellowCard	E44741-235643
Features	Gloss, low Good melt strength Good coloring Medium impact resistance
Uses	Application in Automobile Field Car interior parts Car dashboard
Agency Ratings	EC 1907/2006 (REACH)
Forms	Particle
Processing Method	Co-extrusion molding Sheet extrusion molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Specific Volume	0.950	cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	10	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1520	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	19.3	MPa	ASTM D638
Fracture	22.1	MPa	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength (Yield)	31.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	53	J/m	ASTM D256

-18°C, 3.18 mm	69	J/m	ASTM D256
23°C, 3.18 mm	110	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-34°C, Peak Energy	14.0	J	ASTM D3763
-34°C, Total Energy	16.0	J	ASTM D3763
-18°C, Peak Energy	19.0	J	ASTM D3763
-18°C, Total Energy	23.0	J	ASTM D3763
23°C, Total Energy	30.0	J	ASTM D3763
23°C, Peak Energy	26.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	96.1	°C	ASTM D648
1.8 MPa, not annealed	86.1	°C	ASTM D648
CLTE - Flow	9.7E-5	cm/cm/°C	ASTM D696
RTI Elec (1.47 mm)	60.0	°C	UL 746
RTI Imp (1.47 mm)	60.0	°C	UL 746
RTI (1.47 mm)	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	< 10		ASTM D523
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	< 0.030	%	
Cylinder Zone 1 Temp.	216 - 2560	°C	
Cylinder Zone 2 Temp.	216 - 241	°C	
Cylinder Zone 3 Temp.	216 - 241	°C	
Cylinder Zone 4 Temp.	216 - 241	°C	
Cylinder Zone 5 Temp.	216 - 241	°C	
Melt Temperature	216 - 249	°C	
Die Temperature	210 - 241	°C	
Take-Off Roll	62.8 - 104	°C	
Extrusion instructions			

Compression Ratio: 2.5:1 to 2.7:1Pump Ratio: 1.5 to 2.0Max Regrind Allowed: 40%

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT