LG Chemical TR-558NS Transparent ABS, Antistatic, Natural and Colored Pellets

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Transparent, Molded

Material Notes:

LG transparent ABS has excellent transparency, impact strength, stiffness, and processability. Since its properties are well balanced, it can be applied widely to a variety of electric and electronic parts, OA machines, toys and others that require transparency and high impact strength. An Izod impact strength or falling dart impact strength of LG transparent ABS is relatively similar to that of general ABS, it is not easily cracked like SAN or PMMA resin in the condition of low impact energy. TR-558 series is good for applications requiring high stiffness.Information Provided by LG Chem

Order this product through the following link:
http://www.lookpolymers.com/polymer_LG-Chemical-TR-558NS-Transparent-ABS-Antistatic-Natural-and-Colored-Pellets.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Index of Compound	22 g/10 min	22 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	77.47 MPa	11240 psi	ASTM D790
Flexural Modulus	2.26 GPa	328 ksi	ASTM D790
Izod Impact, Notched	0.0981 J/cm	0.184 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	89.0 Â°C	192 Â°F	Heat deflection temperature, load unknown; ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	
Transmission, Visible	88 %	88 %	

Electrical Properties	Metric	English	Comments
Surface Resistance	2.00e+13 ohm	2.00e+13 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 200 Â°C	374 - 392 Â°F	Extrusion cylinder temperature, C1
	210 - 225 Â°C	410 - 437 Â°F	Extrusion cylinder temperature, C2
	230 - 240 Â°C	446 - 464 Â°F	Extrusion cylinder temperature, C3
	240 - 250 Â°C	464 - 482 Â°F	Extrusion cylinder temperature, C4 and C5
Rear Barrel Temperature	190 - 200 Â°C	374 - 392 Â°F	
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	
Adapter Temperature	235 - 245 Â°C	455 - 473 Â°F	
Die Temperature	113 - 118 Â°C	235 - 245 Â°F	
Melt Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection molding
	255 - 260 Â°C	491 - 500 Â°F	Extrusion
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
Roll Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	Bottom
	80.0 - 90.0 Â°C	176 - 194 Â°F	Middle
	85.0 - 95.0 Â°C	185 - 203 Â°F	Top
Injection Pressure	68.65 - 88.26 MPa	9957 - 12800 psi	Second
	58.84 - 98.1 MPa	8534 - 14200 psi	First
Back Pressure	0.490 - 1.96 MPa	71.1 - 284 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

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