

## LG Chemical TR-558A ABS, Transparent, High Strength

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, 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. Since LG transparent ABS TR-558A has excellent transparency and property balance, it could easily be applied on the following products: Electric and electronic: Vacuum cleaner parts, air-conditioner panel, humidifier water tank, mixer housing, copier parts, telephone parts, computer housing, facsimile parts, printer panel, washing machine panel and cover, electric fan stand, TV front frame, windows of microwave ovens, calculators, semiconductor carrier box Other Applications: Compact cases, cosmetic parts, tool handles, toys, stationeries, game machine Information Provided by LG Chem

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-TR-558A-ABS-Transparent-High-Strength.php](http://www.lookpolymers.com/polymer_LG-Chemical-TR-558A-ABS-Transparent-High-Strength.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	ASTM D792
Melt Index of Compound	24 g/10 min @Load 10.0 kg, Temperature 220 °C	24 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ASTM D638
Elongation at Break	35 %	35 %	50 mm/min; ASTM D638
Flexural Yield Strength	81.4 MPa	11800 psi	15 mm/min; ASTM D790
Flexural Modulus	2.45 GPa	355 ksi	15 mm/min; ASTM D790
Izod Impact Notched	2.98 J @Thickness 3.20 mm	2.20 ft-lb @Thickness 0.126 in	ASTM D256
	3.24 J @Thickness 6.40 mm	2.39 ft-lb @Thickness 0.252 in	ASTM D256

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Transmission, Visible			ASTM D1003

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

## Contact Songhan Plastic Technology Co.,Ltd.

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