

Styrolution Terluxe® 2802 TR MABS

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

Material Notes:

Terluxe 2802 TR is a standard injection molding MABS grade for transparent parts. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terluxe-2802-TR-MABS.php

Physical Properties	Metric	English	Comments
Water Absorption	0.70 %	0.70 %	ISO 62
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM Data; MD
Melt Flow	2.0 g/10 min @Temperature 200 °C	2.0 g/10 min @Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50mm/min; ISO 527
	48.0 MPa	6960 psi	2 in/min; ASTM Test
Elongation at Break	12 %	12 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1mm/min; ISO 527
	2.00 GPa	290 ksi	ASTM Test
Izod Impact, Notched	0.690 J/cm @Thickness 3.17 mm	1.29 ft-lb/in @Thickness 0.125 in	ASTM Test
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	94.0 $\text{Å}^\circ\text{C}$	201 $\text{Å}^\circ\text{F}$	annealed; ASTM Test
	94.0 $\text{Å}^\circ\text{C}$	201 $\text{Å}^\circ\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	annealed; ASTM Test
	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	ISO 75
Vicat Softening Point	91.0 $\text{Å}^\circ\text{C}$	196 $\text{Å}^\circ\text{F}$	Rate "A" Loading 1 (50 degC/h 10N); ASTM Test
	93.0 $\text{Å}^\circ\text{C}$	199 $\text{Å}^\circ\text{F}$	(50 $\text{Å}^\circ\text{C}/\text{h}$ / 50N) - B/50; ISO 306
Glass Transition Temp, Tg	107 $\text{Å}^\circ\text{C}$	225 $\text{Å}^\circ\text{F}$	10 K/min; ISO 11357-1/-3

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	unknown thickness

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13 \text{ ohm}\cdot\text{cm}$	$\geq 1.00\text{e}+13 \text{ ohm}\cdot\text{cm}$	IEC 60093
Dielectric Constant	2.8	2.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.9	2.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.014	0.014	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.016	0.016	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	229 - 260 $\text{Å}^\circ\text{C}$	444 - 500 $\text{Å}^\circ\text{F}$	Injection Molding
	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	Injection molding
Mold Temperature	48.9 - 73.9 $\text{Å}^\circ\text{C}$	120 - 165 $\text{Å}^\circ\text{F}$	Injection Molding

Processing Properties	Metric °C	English	Comments
Injection Velocity	60.0 mm/sec	2.36 in/sec	Injection molding
Drying Temperature	70.0 Â°C	158 Â°F	Injection Molding
Dry Time	2 - 4 hour	2 - 4 hour	Injection Molding
Moisture Content	0.70 %	0.70 %	ASTM Data

Descriptive Properties	Value	Comments
Color	Clear	
Commercial Status	North America and Europe	
Impact Modified	Yes	
Injection Molding Regrind	<10%	
NSF Std. 51	No	
NSF Std. 61	No	
Primary Processing Technique	Injection Molding	
Processing	Blow Molding	
	Film Extrusion	
	Injection Molding	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	
Special characteristic	Platable	
UL.UL-C	Yes	

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