

Styrolution Terluxe® 2802 TR Q434 Transparent MABS

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

Material Notes:

Description: Terluxe® 2802 TR Q434 is a new grade with enhanced toughness. 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-Q434-Transparent-MABS.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption	0.70 %	0.70 %	ISO 62
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	2.16 g/10 min	2.16 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	18.36 g/10 min	18.36 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 220 °C	@Load 47.6 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ISO 2039-2
Ball Indentation Hardness	70.0 MPa	10200 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	48.0 MPa	6960 psi	50mm/min; ISO 527-1/-2
Elongation at Break	12 %	12 %	Nominal; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-1/-2
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	18.0 J/cm ²	85.7 ft-lb/in ²	ISO 179
	@Temperature 23.0		

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.200 J/cm ^Å ²	0.952 ft-lb/in ^Å ²	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	1.00 J/cm ^Å ²	4.76 ft-lb/in ^Å ²	ISO 179
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 - 110 Åµm/m-Å°C	44.4 - 61.1 Åµin/in-Å°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
Maximum Service Temperature, Air	75.0 Å°C	167 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Å°C	201 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	ISO 75
Vicat Softening Point	93.0 Å°C	199 Å°F	VST/B/50; ISO 306
	105 Å°C	221 Å°F	VST/A/50; ISO 306

Optical Properties	Metric	English	Comments
Refractive Index	1.54	1.54	ISO 489
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	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	
Dielectric Strength	34.0 kV/mm	864 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.014	0.014	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	0.016	0.016	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 Â°C	446 - 500 Â°F	Injection Molding
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Transparent	
Commercial Status	Europe	

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