

Styrolution Terluran® SP-6 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description: High impact grade, suitable for extrusion. 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-Terluran-SP-6-ABS.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Water Absorption	1.03 %	1.03 %	ISO 62
Moisture Absorption at Equilibrium	0.21 %	0.21 %	23 ^o C/50% RH; ISO 62
Melt Flow	5.665 g/10 min @Load 10.0 kg, Temperature 220 ^o C	5.665 g/10 min @Load 22.0 lb, Temperature 428 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa @Load 36.5 kg, Time 30.0 sec	10700 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	37.0 MPa	5370 psi	50mm/min; ISO 527-1/-2
Elongation at Break	9.0 %	9.0 %	Nominal; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	ISO 527-1/-2
Flexural Strength	56.0 MPa	8120 psi	ISO 178
Izod Impact, Notched	4.10 J/cm	7.68 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	14.0 kJ/m ² @Temperature -30.0 ^o C	6.66 ft-lb/in ² @Temperature -22.0 ^o F	ISO 180/A
	36.0 kJ/m ² @Temperature 23.0 ^o C	17.1 ft-lb/in ² @Temperature 73.4 ^o F	ISO 180/A
Charpy Impact Unnotched	14.0 J/cm ² @Temperature -30.0	66.6 ft-lb/in ² @Temperature -22.0	ISO 179/1eU

Mechanical Properties	°C Metric	°F English	Comments
	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	3.50 J/cm ²	16.7 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 - 110 µm/m-°C	44.4 - 61.1 µin/in-°F	
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	ISO 11359-1/-2
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² - °F	DIN 52612-1
Maximum Service Temperature, Air	80.0 °C	176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ISO 75
Vicat Softening Point	90.0 °C	194 °F	VST/B/50; ISO 306
	103 °C	217 °F	VST/A/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	2.8	2.8	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	2.9	2.9	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	K20/P50; IEC 60243-1
	0.0054	0.0054	

Dielectric Factor Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	IEC 60250 Comments
	0.0082	0.0082	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Liquid A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Extrusion Pipes
	210 - 240 Â°C	410 - 464 Â°F	Extrusion Sheets
Drying Temperature	80.0 Â°C	176 Â°F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Extrusion	

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