

Total Polystyrene Impact 8260 Improved Environmental Stress Crack Resistance High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

POLYSTYRENE IMPACT 8260 is a high impact polystyrene for extrusion and injection applications. This grade has an improved environmental stress crack resistance in comparison with standard high impact grades. The product has been specifically designed for the production of refrigerator part: inner liners, door liners. injected parts etc. This grade is also proposed for the production of packaging intended for products likely to cause stress cracking e.g. fats, oil...POLYSTYRENE IMPACT 8260 retains good mechanical properties at low temperatures making this grade suitable for frozen packaging; it also affords good printing performance. Applications Sheet for thermoforming, fridge liners, low temperature packaging applications (ice cream boxes and lids), packaging for aggressive foodstuffs, matte finish, soft touch. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Polystyrene-Impact-8260-Improved-Environmental-Stress-Crack-Resistance-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	2.8 g/10 min @Load 5.00 kg, Temperature 200 °C	2.8 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133 H

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-2
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527-2
Elongation at Break	>= 60 %	>= 60 %	ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	ISO 527-2
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	

Thermal Properties	90.0 °C Metric	194 °F English	Comments
	@Load 5.10 kg	@Load 11.2 lb	
	99.0 °C	210 °F	50°C per hour; ISO 306A50
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00e+13$ ohm	$\geq 1.00e+13$ ohm	ISO IEC 93
Dielectric Strength	150 kV/mm	3810 kV/in	

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