TOTAL Polystyrene Impact 8260

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE IMPACT 8260 is an high impact polystyrene for extrusioin 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.

General Information	
UL YellowCard	E72824-100524722
Features	Excellent Printability High ESCR (Stress Crack Resist.)
Uses	Liners Packaging
Agency Ratings	EU 2002/72/EC EU 2004/1/EC EU 2004/19/EC EU 2005/79/EC EU 2007/19/EC EU 2008/39/EC
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Apparent Density	0.60	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1600	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, 23°C	20.0	MPa	
Break, 23°C	25.0	MPa	
Tensile Strain (Break, 23°C)	> 60	%	ISO 527-2
Flexural Modulus (23°C)	1600	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	11	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			
--	99.0	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow	9.1E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Electric Strength (23°C)	150	kV/mm	IEC 60243-1

Recommended distributors for this material

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