

TOTAL Polystyrene Impact 8265

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

Polystyrene Impact 8265 is a high ductility polystyrene for extrusion application. It offers excellent environmental stress crack resistance (ESCR) at low temperatures, rendering it suitable for frozen packaging while retaining good mechanical properties.

Application:
Fridge

General Information	
UL YellowCard	E472299-102068904
Features	High ESCR (Stress Crack Resist.)
	Low Temperature Resistant
Uses	Food Packaging
	Low Temperature Applications
Agency Ratings	EC 1907/2006 (REACH)
UL File Number	E314268
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Spiral Flow ¹	44.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption			
Saturation	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.060	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, 23°C, Injection Molded	78		ASTM D785
R-Scale, 23°C	78		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, Injection Molded)	27.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C, Injection Molded)	75	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C, Injection Molded)	1700	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C, Injection Molded	110	J/m	ASTM D256
23°C, Injection Molded	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ISO 306/A50, ASTM D1525 2
CLTE - Flow	9.1E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	81	°C	ISO 75-2
--	81	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Dielectric Strength	150	kV/mm	ASTM D149
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 to 180	°C	
Cylinder Zone 2 Temp.	180 to 220	°C	
Cylinder Zone 3 Temp.	210 to 240	°C	
Cylinder Zone 4 Temp.	210 to 240	°C	
Adapter Temperature	210 to 240	°C	
Die Temperature	210 to 240	°C	
NOTE			
1.	Melt Temperature: 220°C		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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