

Hifax CA 207 A

Advanced Polyolefin

Product Description

Hifax CA 207 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology. It is suitable for injection molding applications as well as for wire & cable extrusion process. As an impact modifier for compounding applications, it can be blended with other polyolefinic resins for a better shrinkage control and to improve the low temperature impact resistance. It does not contain any slip nor anti-blocking agents. The grade is available in natural pellet form. For regulatory compliance information see *Hifax CA 207 A Product Stewardship Bulletin (PSB)*.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Extrusion Compounding, Injection Molding
Features	Good Abrasion Resistance , Good Dimensional Stability, Good Electrical Properties, High Heat Resistance , High Impact Resistance , Low Temperature Impact Resistance
Typical Customer Applications	Exterior Applications, Polymer modifier, Wire & Cable

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.90	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	7.5	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	22	MPa
Tensile Stress at Yield	ISO 527-1, -2	14	MPa
Tensile Strain at Break	ISO 527-1, -2	>800	%
Tensile Strain at Yield	ISO 527-1, -2	20	%
Flexural modulus	ISO 178	500	MPa
Impact			
Notched izod impact strength (-40 °C, Type 1, Notch A)	ISO 180	10	kJ/m²
Multiaxial Impact Strength (23 °C, 2.2 m/s) Note: Failure Mode: Ductile (-40 °C, 6.6 m/s) Note: Failure Mode: Ductile	ASTM D3763	16	J
		23	J
Hardness			
Shore hardness (Shore D)	ISO 868	50	
Note: 15 seconds			
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	60	°C
Vicat softening temperature (A50 (50 °C/h 10 N))	ISO 306	94	°C
Melting temperature	DSC	162	°C
Additional Information			
Mold shrinkage	ISO 294-4	0.6	%
Note: 48 h after molding, 100 mm x 150 mm x 3.2 mm plaque			

Additional Properties

Tear Strength (Graves, Die C, 50 mm/min), ASTM D 624, Load/Width @ Max Load: 122 N/mm

Notes

Typical properties; not to be construed as specifications.

