

# Hifax CA 7442 A

## Advanced Polyolefin

### Product Description

Hifax CA 7442 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology. It is primarily used for bumper and exterior trim applications in Automotive but can also be used as a base resin for technical compounds. It has a high impact performance and reduced shrinkage. The material also exhibits good processability. The grade is available in natural pellet form.

### Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Extrusion Compounding, Injection Molding
Features	Medium Flow, High Impact Resistance , Good Moldability , Good Processability, Medium Rigidity , Low Shrinkage
Typical Customer Applications	Automotive Parts, Bumpers, Exterior Applications, Technical parts

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density (g/cm <sup>3</sup> )	ISO 1183	0.90	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg g/10 min)	ISO 1133	10	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break (23 °C, 50 mm/min)	ISO 527-1, -2	17	MPa
Tensile Stress at Yield (23°C, 50 mm/min)	ISO 527-1, -2	19	MPa
Flexural modulus (23 °C, 2 mm/min, Chord)	ISO 178	1000	MPa
<b>Impact</b>			
Charpy notched impact strength	ISO 179		
(-40°C, Type 1, Edgewise, Notch A)		4.5	kJ/m <sup>2</sup>
(-30°C kJ/m <sup>2</sup> , Type 1, Edgewise, Notch A)		6.5	kJ/m <sup>2</sup>
(-20, Type 1, Edgewise, Notch A)		7.5	kJ/m <sup>2</sup>
(23°C, Type 1, Edgewise, Notch A)		50	kJ/m <sup>2</sup>
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	86	°C
Vicat softening temperature B/50	ISO 306	121	°C

### Additional Properties

Mould Shrinkage (Internal Method) MD 0.55%, TD 0.70%

### Notes

Typical properties; not to be construed as specifications.

