

LG Chemical KEYFLEX TO-1075A Thermoplastic Olefin for Injection Molding, 75A Hardness

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

Material Notes:

KEYFLEX resins, thermoplastic elastomers divided by polyester and polyolefin type, have been developed by LG's own polymerization and compounding technology. They display the flexibility of rubber and the strength of engineering plastics. In additions, they offer very good thermal stability, chemical resistance and weather resistance. KEYFLEX resins can be widely accepted as the replacement of thermoset rubbers. Characterization: High impact strength Low specific gravity Excellent resistance to chemicals and weathering Good electrical properties Various hardness grades (soft, semi-soft, and hard) Colorability Recyclability Applications: Automotive: Exterior: Bumper, air spoiler, mud guard, trim, side molding Interior: Head liner, instrument panel skin, glass sealing, door trim skin Others: Air intake hose, air duct, lamp packing, weather stripping, handle gasket, boots dust Others: Hose, packing, phone foos, gasket, insulation sheet (water protection sheet etc.), racket grip, booster cable, pump cable Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-TO-1075A-Thermoplastic-Olefin-for-Injection-Molding-75A-Hardness.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72 - 78	72 - 78	ASTM D2240
Tensile Strength at Break	5.90 MPa	856 psi	ASTM D412
Tensile Strength, Yield	3.40 MPa @Strain 100 %	493 psi @Strain 100 %	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
Izod Impact, Notched	NB @Temperature -40.0 Â°C	NB @Temperature -40.0 Â°F	ASTM D256
Tear Strength	35.1 kN/m	200 pli	ASTM D790
Compression Set	26 %	26 %	25Â°C for 22 hrs; ASTM D395
	43 %	43 %	70Â°C for 22 hrs; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-63.0 Â°C	-81.4 Â°F	ASTM D746

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
	180 - 210 Â°C	356 - 410 Â°F	Blow molding cylinder temperature
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	
Die Temperature	93.3 Â°C	200 Â°F	Extrusion
	93.3 - 104 Â°C	200 - 220 Â°F	Blow molding
Mold Temperature	5.00 - 40.0 Â°C	41.0 - 104 Â°F	Blow molding
	30.0 - 60.0 Â°C	86.0 - 140 Â°F	Injection molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	
Dry Time	2 hour	2 hour	Hot Blast
Injection Pressure	49.03 - 98.07 MPa	7111 - 14220 psi	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

Descriptive Properties	Value	Comments
Ozone Resistance	No Crack	ASTM D518

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China