

AuroraFlex™ CLR40FX2

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

CLR40FX2 is a transparent thermoplastic elastomer that has been developed for applications that require ultra soft rubber like properties and a good surface finish. CLR40FX2 is well suited for consumer goods and industrial applications requiring nonslip/soft dry touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. CLR40FX2 can be over-molded to PC, ABS, PC/ABS, PS, PET, Co-polyester, Acrylic and more.

Product is supplied as ready to use pellets.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer		
Features	• Good Impact Resistance • Good Surface Finish	• Soft • UV Stabilized	
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	17	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	145	psi	ASTM D412
Tensile Strength (Break)	856	psi	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Tear Strength	116	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	40		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	410 to 421	°F
Front Temperature	421 to 511	°F
Nozzle Temperature	441 to 531	°F
Mold Temperature	81 to 120	°F
Back Pressure	75.4 to 175	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

